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RAW SEQUENCE LISTING

DATE: 09/17/2004

PATENT APPLICATION: US/10/656,531B

TIME: 15:49:44

Input Set : A:\CTCH-P01-016 SUB SEQ.TXT

Output Set: N:\CRF4\09172004\J656531B.raw

4 <110> APPLICANT: Baltimore, David
 5 Porteus, Matthew
 7 <120> TITLE OF INVENTION: USE OF CHIMERIC NUCLEASES TO STIMULATE
 8 GENE TARGETING
 10 <130> FILE REFERENCE: CTCH-P01-016
 12 <140> CURRENT APPLICATION NUMBER: 10/656,531B
 13 <141> CURRENT FILING DATE: 2003-09-05
 15 <150> PRIOR APPLICATION NUMBER: 60/408,454
 16 <151> PRIOR FILING DATE: 2002-09-05
 18 <150> PRIOR APPLICATION NUMBER: 60/484,788
 19 <151> PRIOR FILING DATE: 2003-07-03
 21 <150> PRIOR APPLICATION NUMBER: 60/419,341
 22 <151> PRIOR FILING DATE: 2002-10-17
 24 <160> NUMBER OF SEQ ID NOS: 52
 26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 18
 30 <212> TYPE: DNA
 31 <213> ORGANISM: Unknown
 33 <220> FEATURE:
 34 <223> OTHER INFORMATION: Oligonucleotide
 36 <400> SEQUENCE: 1
 37 tagggataac agggtaat
 39 <210> SEQ ID NO: 2
 40 <211> LENGTH: 9
 41 <212> TYPE: DNA
 42 <213> ORGANISM: Unknown
 44 <220> FEATURE:
 45 <223> OTHER INFORMATION: Oligonucleotide
 47 <400> SEQUENCE: 2
 48 ggggaagaa
 50 <210> SEQ ID NO: 3
 51 <211> LENGTH: 9
 52 <212> TYPE: DNA
 53 <213> ORGANISM: Unknown
 55 <220> FEATURE:
 56 <223> OTHER INFORMATION: Oligonucleotide
 58 <400> SEQUENCE: 3
 59 gcgtggtcg
 61 <210> SEQ ID NO: 4
 62 <211> LENGTH: 9
 63 <212> TYPE: DNA
 64 <213> ORGANISM: Unknown

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66 <220> FEATURE:
67 <223> OTHER INFORMATION: Oligonucleotide
69 <400> SEQUENCE: 4
70 gatgttgct 9
72 <210> SEQ ID NO: 5
73 <211> LENGTH: 15
74 <212> TYPE: DNA
75 <213> ORGANISM: Unknown
77 <220> FEATURE:
78 <223> OTHER INFORMATION: Oligonucleotide
W--> 80 <221> NAME/KEY: misc_feature
81 <222> LOCATION: (5)...(10)
82 <223> OTHER INFORMATION: n = A,T,C or G
W--> 84 <400> 5
W--> 85 gatgnnnnnnn ttgct 15
87 <210> SEQ ID NO: 6
88 <211> LENGTH: 9
89 <212> TYPE: DNA
90 <213> ORGANISM: Unknown
92 <220> FEATURE:
93 <223> OTHER INFORMATION: Oligonucleotide
W--> 95 <221> NAME/KEY: misc_feature
96 <222> LOCATION: 2,3,5,6,8,9
97 <223> OTHER INFORMATION: n = A,T,C or G
W--> 99 <400> 6
W--> 100 gnnngnnngnn 9
102 <210> SEQ ID NO: 7
103 <211> LENGTH: 24
104 <212> TYPE: DNA
105 <213> ORGANISM: Homo sapiens
107 <220> FEATURE:
108 <221> NAME/KEY: misc_feature
109 <222> LOCATION: 1,2,4,5,7,8
110 <223> OTHER INFORMATION: n = A,T,C or G
112 <221> NAME/KEY: misc_feature
113 <222> LOCATION: (10)...(15)
114 <223> OTHER INFORMATION: n= A,T,C or G
W--> 116 <221> misc_feature
117 <222> LOCATION: 17,18,20,21,23,24
118 <223> OTHER INFORMATION: n=A,T,C or G
W--> 120 <400> 7
W--> 121 nncnncnncn nnnnngnnngn ngnn 24
123 <210> SEQ ID NO: 8
124 <211> LENGTH: 9
125 <212> TYPE: DNA
126 <213> ORGANISM: Unknown
128 <220> FEATURE:
129 <223> OTHER INFORMATION: Oligonucleotide
131 <400> SEQUENCE: 8

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132	ggggaagaa	9
134	<210> SEQ ID NO: 9	
135	<211> LENGTH: 8	
136	<212> TYPE: DNA	
137	<213> ORGANISM: Unknown	
139	<220> FEATURE:	
140	<223> OTHER INFORMATION: Oligonucleotide	
142	<400> SEQUENCE: 9	
143	gcgtggcg	8
145	<210> SEQ ID NO: 10	
146	<211> LENGTH: 24	
147	<212> TYPE: DNA	
148	<213> ORGANISM: Unknown	
150	<220> FEATURE:	
151	<223> OTHER INFORMATION: Oligonucleotide	
153	<400> SEQUENCE: 10	
154	accatcttct tcaaggacga cggc	24
156	<210> SEQ ID NO: 11	
157	<211> LENGTH: 9	
158	<212> TYPE: DNA	
159	<213> ORGANISM: Unknown	
161	<220> FEATURE:	
162	<223> OTHER INFORMATION: Oligonucleotide	
164	<400> SEQUENCE: 11	
165	gaagatggt	9
167	<210> SEQ ID NO: 12	
168	<211> LENGTH: 9	
169	<212> TYPE: DNA	
170	<213> ORGANISM: Unknown	
172	<220> FEATURE:	
173	<223> OTHER INFORMATION: Oligonucleotide	
175	<400> SEQUENCE: 12	
176	gacgacggc	9
178	<210> SEQ ID NO: 13	
179	<211> LENGTH: 24	
180	<212> TYPE: DNA	
181	<213> ORGANISM: Unknown	
183	<220> FEATURE:	
184	<223> OTHER INFORMATION: Oligonucleotide	
186	<400> SEQUENCE: 13	
187	ggcgcccacc atcgcgtcgc agcc	24
189	<210> SEQ ID NO: 14	
190	<211> LENGTH: 9	
191	<212> TYPE: DNA	
192	<213> ORGANISM: Unknown	
194	<220> FEATURE:	
195	<223> OTHER INFORMATION: Oligonucleotide	
197	<400> SEQUENCE: 14	
198	gtgggcgcc	9

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200 <210> SEQ ID NO: 15
201 <211> LENGTH: 9
202 <212> TYPE: DNA
203 <213> ORGANISM: Unknown
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Oligonucleotide
208 <400> SEQUENCE: 15
209 gtcgcagcc 9
211 <210> SEQ ID NO: 16
212 <211> LENGTH: 168
213 <212> TYPE: DNA
214 <213> ORGANISM: Unknown
216 <220> FEATURE:
217 <223> OTHER INFORMATION: Oligonucleotide
219 <400> SEQUENCE: 16
220 actagcaacc tcaaacagac accatggtgc atctgactcc tgaggagaag tctgccgtta 60
221 ctgccctgtg gggcaaggtg aacgtgatcg ttggagtttg tctgtggtac cacgtagact 120
222 gaggactcct cttcagacgg caatgacggg acaccccggt ccaacttgc 168
224 <210> SEQ ID NO: 17
225 <211> LENGTH: 9
226 <212> TYPE: DNA
227 <213> ORGANISM: Unknown
229 <220> FEATURE:
230 <223> OTHER INFORMATION: Oligonucleotide
232 <400> SEQUENCE: 17
233 gaggttgct 9
235 <210> SEQ ID NO: 18
236 <211> LENGTH: 7
237 <212> TYPE: PRT
238 <213> ORGANISM: Unknown
240 <220> FEATURE:
241 <223> OTHER INFORMATION: Synthetic zinc finger peptide
243 <400> SEQUENCE: 18
244 Gln Ser Ser Asp Leu Thr Arg
245 1 5
248 <210> SEQ ID NO: 19
249 <211> LENGTH: 7
250 <212> TYPE: PRT
251 <213> ORGANISM: Unknown
253 <220> FEATURE:
254 <223> OTHER INFORMATION: Synthetic zinc finger peptide
256 <400> SEQUENCE: 19
257 Thr Ser Gly Glu Leu Val Arg
258 1 5
261 <210> SEQ ID NO: 20
262 <211> LENGTH: 7
263 <212> TYPE: PRT
264 <213> ORGANISM: Unknown
266 <220> FEATURE:

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267 <223> OTHER INFORMATION: Synthetic zinc finger peptide
269 <400> SEQUENCE: 20
270 Thr Ser Gly Ala Leu Thr Arg
271 1 5
274 <210> SEQ ID NO: 21
275 <211> LENGTH: 7
276 <212> TYPE: PRT
277 <213> ORGANISM: Unknown
279 <220> FEATURE:
280 <223> OTHER INFORMATION: Synthetic zinc finger peptide
282 <400> SEQUENCE: 21
283 Thr Ser Gly Ser Leu Thr Arg
284 1 5
287 <210> SEQ ID NO: 22
288 <211> LENGTH: 7
289 <212> TYPE: PRT
290 <213> ORGANISM: Unknown
292 <220> FEATURE:
293 <223> OTHER INFORMATION: Synthetic zinc finger peptide
295 <400> SEQUENCE: 22
296 Arg Ser Asp Asn Leu Thr Arg
297 1 5
300 <210> SEQ ID NO: 23
301 <211> LENGTH: 7
302 <212> TYPE: PRT
303 <213> ORGANISM: Unknown
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Synthetic zinc finger peptide
308 <400> SEQUENCE: 23
309 Arg Ser Asp Asn Leu Val Arg
310 1 5
313 <210> SEQ ID NO: 24
314 <211> LENGTH: 48
315 <212> TYPE: DNA
316 <213> ORGANISM: Unknown
318 <220> FEATURE:
319 <223> OTHER INFORMATION: Oligonucleotide
321 <400> SEQUENCE: 24
322 agcaacctct ctagagcgtg ggcgtcgttg gagagatctc gcacccgc 48
324 <210> SEQ ID NO: 25
325 <211> LENGTH: 9
326 <212> TYPE: DNA
327 <213> ORGANISM: Unknown
329 <220> FEATURE:
330 <223> OTHER INFORMATION: Oligonucleotide
332 <400> SEQUENCE: 25
333 ggcaaggtg 9
335 <210> SEQ ID NO: 26
336 <211> LENGTH: 7

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/656,531B

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Input Set : A:\CTCH-P01-016 SUB SEQ.TXT
Output Set: N:\CRF4\09172004\J656531B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 5,6,7,8,9,10 ✓

Seq#:6; N Pos. 2,3,5,6,8,9 ✓

Seq#:7; N Pos. 1,2,4,5,7,8,10,11,12,13,14,15,17,18,20,21,23,24 ✓

VERIFICATION SUMMARY

DATE: 09/17/2004

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Input Set : A:\CTCH-P01-016 SUB SEQ.TXT

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L:80 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:84 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:95 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:99 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:116 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:120 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0